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Notice of Allowability	Application No.	Applicant(s)	
	10/765,645	MARINERO ET AL.	
	Examiner	Art Unit	
	Holly Rickman	1773	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIC of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate comm GHTS. This application is:	n this application. If not included unication will be mailed in due course	
1. This communication is responsive to the amendment filed 5	<u>5/18/06</u> .		
2. The allowed claim(s) is/are <u>1,2,4,9,10 and 12-15</u> .			
 3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	been received.	· ·	
3. Copies of the certified copies of the priority doc	•		om the
International Bureau (PCT Rule 17.2(a)).	amona navo boon 1000140	a in this haddrar stage application no	an are
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirem	ents
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EX s reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE relation is deficient.	E OF
5. CORRECTED DRAWINGS (as "replacement sheets") must	t be submitted.	•	
(a) I including changes required by the Notice of Draftsperso		w (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on t ne header according to 37 CF	he drawings in the front (not the back) R 1.121(d).	of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F	SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note th DLOGICAL MATERIAL.	e
Attachment(s)	5 	f	
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		formal Patent Application (PTO-152)	7
_	Paper No.	ummary (PTO-413), /Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 	8), 7. Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	Statement of Reasons for Allowance)
of Biological Material	9. 🗌 Other	•	

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: the claims are allowable over the closest prior art to Simion et al. (US 6185081), Pinarbasi et al. (US 2003/0058586) and Wu et al. (US 2006/0051623). Simion teaches the use of a MgO layer in between Cr layers in a seedlayer portion of a magnetic sensor structure. The reference fails to teach or suggest a motivation to substitute an oxide of Al, Si, Ta, or Hf for the MgO layer taught therein. Pinarbasi et al. fail to teach or suggest the use of Cr layers on both sides of a TaO layer. The reference only suggests the use of a single Cr layer on one side of the TaO layer taught therein. Wu et al. fails to teach or suggest the use of one of the claimed oxide materials in between Cr-based underlayers

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Holly Rickman whose telephone number is (571) 272-1514. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on (571) 272-1284. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Holly Rickman Primary Examiner Art Unit 1773